Agilent Cloning PCR Combo Pack
Product Guide

Catalog #929900

Packing List by Box Number

Box 1 of 4:—20° Components
StrataClone PCR Cloning Kit – PCR components (Vector Mix amp/kan, Cloning Buffer, and Control Insert)
DNA Extraction Kit – Dry ice components (RNase and Pronase)
Easy-A High-Fidelity PCR Cloning Enzyme
Deoxynucleotide Mix
Kb DNA Ladder
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Box 2 of 4:—80°C Components
StrataClone PCR Cloning Kit – SoloPack components (SoloPack Competent Cells and pUC18 Control Plasmid)
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Box 3 of 4: Room Temp Components (1)
DNA Extraction Kit – Room temperature components (Solution 1, Solution 2, and Solution 3)
StrataCooler LP Benchtop Cooler
Tube Strips
Tube Cap Strips
Tube-Strip Capping Tool
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Box 4 of 4: Room Temp Components (2)
StrataPrep Plasmid MiniPrep Kit
StrataPrep DNA Gel Extraction Kit
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Introduction

The Cloning PCR Combo Pack provides kits, reagents and materials to rapidly and efficiently clone your PCR products. (For additional cloning-related reagents, please see Agilent's full line of products at *www.agilent.com/genomics*.) The list of components on page 2 itemizes the individual products that are included in the combo pack. The product workflow on page 3 explains how the components of the combo pack are used together in a PCR cloning application.

Product Manuals

To download the instruction manuals needed to use the products in the combo pack, visit the websites listed below.

StrataPrep Plasmid MiniPrep Kit	www.genomics.agilent.com/files/Manual/400761.pdf
DNA Extraction Kit	www.genomics.agilent.com/files/Manual/200600.pdf
StrataPrep DNA Gel Extraction Kit	www.genomics.agilent.com/files/Manual/400766.pdf
Easy-A High Fidelity PCR Cloning Enzyme	www.genomics.agilent.com/files/Manual/600400.pdf
StrataClone PCR Cloning Kit	www.genomics.agilent.com/files/Manual/240205.pdf

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Components of the Cloning PCR Combo Pack, Catalog #929900

StrataPrep Plasmid MiniPrep Kit, 50 preps

Part Number	Material
400761-13	Solution 1, 6 ml
400761-14	Solution 2, 6 ml
400761-15	Solution 3, 8 ml
400761-16	Wash Buffer (2×), 25 ml
400761-17	Nuclease-removal buffer (1×), 25 ml
400761-110	Microspin cups & receptacle tubes, 50 each

DNA Extraction Kit, 30-35 extractions

Part Number	Material
200600-13	Solution 1 (3×), 500 ml
200600-14	Solution 2, 420 ml
200600-15	Solution 3, 150 ml
200600-81	RNase, 1 ml
200600-82	Pronase, 2 ml

StrataClone PCR Cloning Kit, 20 rxns

Part Number	Material
240205-51	StrataClone vector mix amp/kan, 21 µl
240205-54	StrataClone cloning buffer, 63 µl
240205-53	StrataClone control insert, 10 µl
200185-41	StrataClone SoloPack competent cells, 1.05 ml
200231-42	pUC18 control plasmid, 10 µl

StrataPrep DNA Gel Extraction Kit, 50 preps

Part Number	Material
400766-13	DNA extraction buffer, 20 ml
400761-16	Wash buffer (2×), 25 ml
211189-110	Microspin cups & receptacle tubes, 50 each

Easy-A High-Fidelity PCR Cloning Enzyme 40 × 50 µl rxns

Part Number	Material
600400-51	Easy-A high-fidelity PCR cloning enzyme, 5 U/µl
600400-52	10× Easy-A reaction buffer

Deoxynucleotide Mix, 1000 rxns

Part Number	Material
200415-51	100 mM dNTP Mix, 400 µl

Kb DNA Ladder, 15 fragments, 250 bp – 12 kb

Part Number	Material
201115-81	Kb DNA ladder, 500 µl

StrataCooler LP Benchtop Cooler

Part Number	Material
401349	StrataCooler LP benchtop cooler, 1 each

Tube Strips

Part Number	Material
410082	0.2 ml Tube strips, 80 strips of 12

Tube Cap Strips

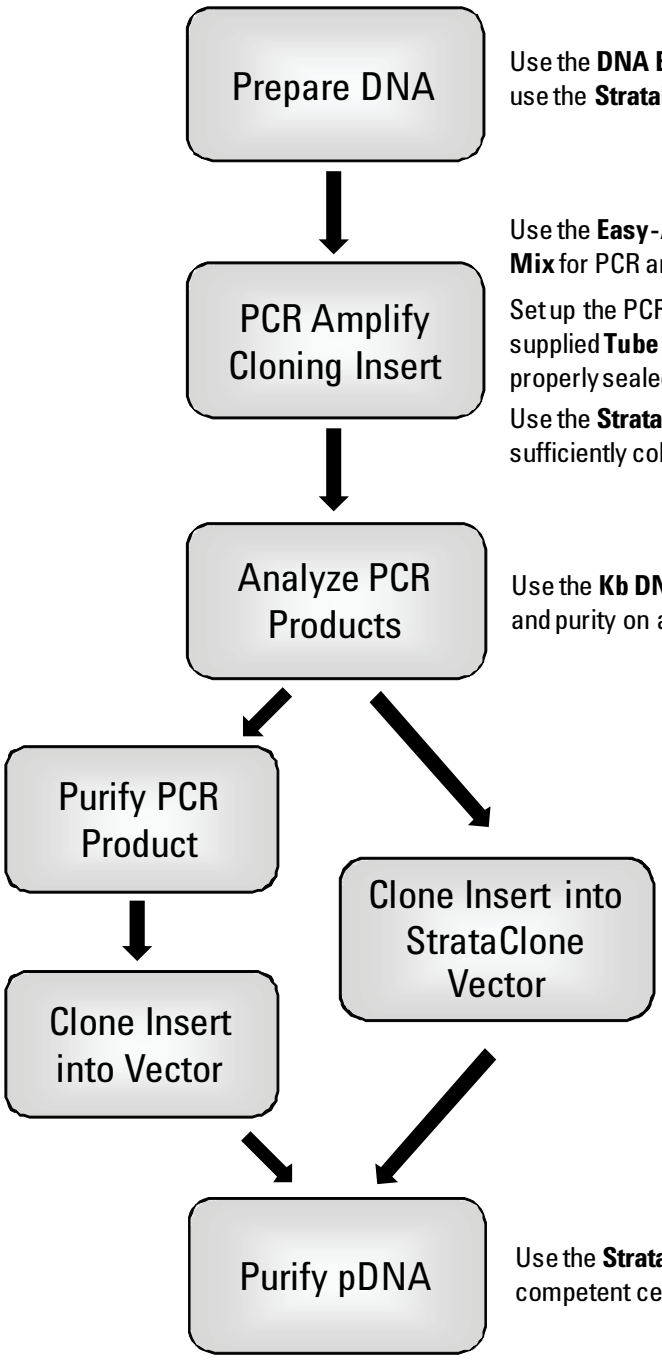
Part Number	Material
410086	Tube cap strips, 80 strips of 12

Tube-Strip Capping Tool

Part Number	Material
410099	Tube-strip capping tools, 2 each

Note: Pack sizes vary for each individual kit in the combo pack. Catalog information for reordering individual components is listed on page 4 of this guide.

Cloning PCR Combo Pack – Product Workflow



Use the **DNA Extraction Kit** to extract genomic DNA from cells or tissues, or use the **StrataPrep MiniPrep Kit** to isolate plasmid DNA from *E. coli*.

Use the **Easy-A High-Fidelity PCR Cloning Enzyme** and the **Deoxynucleotide Mix** for PCR amplification of the clone insert.

Set up the PCR reactions in the supplied **Tube Strips** and cap the tubes with the supplied **Tube Cap Strips**. The **Tube-Strip Capping Tool** helps ensure tubes are properly sealed.

Use the **StrataCooler LP Benchtop Cooler** to keep your reactions and reagents sufficiently cold during set up.

Use the **Kb DNA Ladder** to check your PCR product size, relative yield, and purity on an agarose gel.

Use the **StrataPrep DNA Gel Extraction Kit** to gel-purify the insert, or use the **StrataPrep PCR Purification Kit** to purify the insert without gel-purification. The insert may then be cloned into your own vector.

-OR-

Use the **StrataClone PCR Cloning Kit** to prepare the insert, ligate into the StrataClone vector, and transform competent cells.

Use the **StrataPrep MiniPrep Kit** to isolate the recombinant plasmid from competent cells.

Cloning PCR Combo Pack – FAQ's

Q: The combo pack components did not get used up at the same time. Why?

A: The kits included in the combo pack do not provide for the same number of experiments, and usage will vary depending on your specific experimental needs. Please refer to page 4 for reordering information on individual kits/products.

Q: How long can I store the components of the combo pack?

A: Each kit/component within the combo pack has its own expiration date. Agilent will guarantee products within the kit for 12 months from date of purchase when stored as instructed.

Q: What other cloning products are available from Agilent?

A: Agilent offers a variety of PCR enzymes, cloning vectors and library construction kits. Visit *www.agilent.com/genomics/cloning* for the full line of product options.

Cloning PCR Combo Pack – Product Descriptions and Catalog Reorder Information

Product	Description	Catalog #
StrataPrep Plasmid MiniPrep Kit	Reagents and materials needed for rapid, phenol-free purification of plasmid DNA from bacterial cultures	#400761 – 50 preps #400763 – 200 preps
DNA Extraction Kit	Reagents for obtaining highly pure DNA from tissues, cell culture pellets or blood	#200600
StrataPrep DNA Gel Extraction Kit	Reagents and materials needed for rapid, high-yield isolation of DNA from agarose	#400766 – 50 extractions #400768 – 250 extractions
StrataClone PCR Cloning Kit	Reagents for performing 5 minute cloning of PCR products using a topoisomerase-based method	#240205 – 20 reactions
Easy-A High-Fidelity PCR Cloning Enzyme	DNA polymerase blend for high-fidelity PCR amplification of cloning inserts with 3′-overhangs	#600400 – 100 U #600402 – 500 U #600404 – 1000 U
Deoxynucleotide Mix	PCR-grade 100 mM dNTP mix (25 mM of each dNTP)	#200415 – 400 µl
Kb DNA Ladder	Mix of 15 DNA fragments spanning 250 bp to 12 kb	#201115 – 250 µg
Tube Strips	Thin-walled, 200 µl PCR reaction tubes in strips of 12	#410082 – 80 strips
Tube Cap Strips	Caps for PCR reaction tubes in strips of 12	#410086 – 80 strips
Tube Strip Capping Tool	Hand tool for pressing down cap strips on tube strips	#410099 – 2 tools
StrataCooler LP Benchtop Cooler	Cooler with slots for holding 1.5 ml and 0.5 ml tubes to keep temperature-sensitive enzymes cold while working at the bench	#401349 – 1 cooler

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